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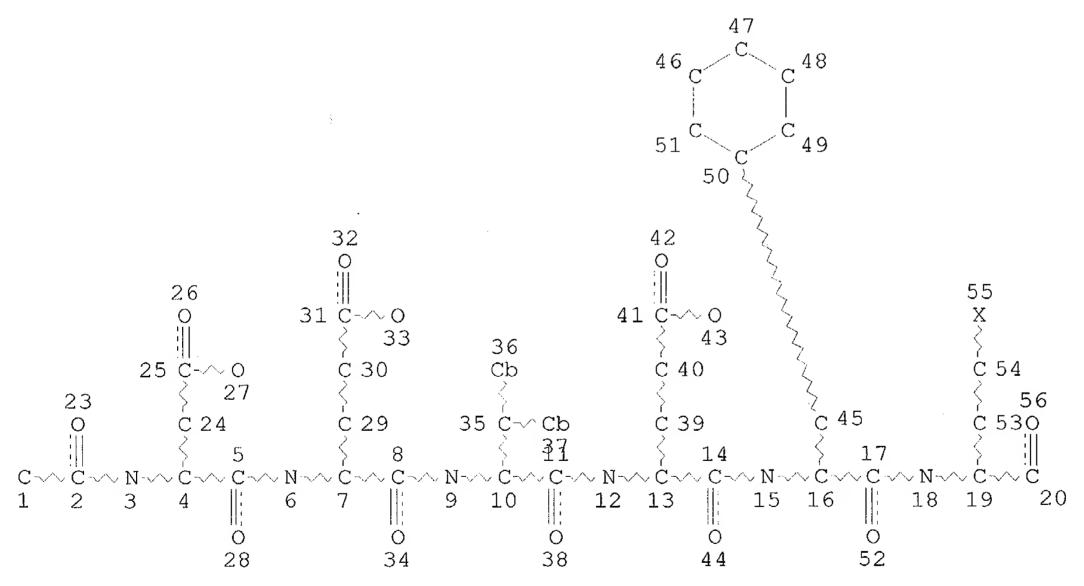
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FILE COVERS 1907 - 29 Sep 2003 VOL 139 ISS 14 FILE LAST UPDATED: 28 Sep 2003 (20030928/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 54

STEREO ATTRIBUTES: NONE

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     ANSWER 1 OF 6
L6
                    HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                         2002:777963 HCAPLUS
DOCUMENT NUMBER:
                         137:295254
                         Preparation of peptide inhibitors of hepatitis C virus
TITLE:
                         NS3 protease
                         Colarusso, Stefania; Gardelli, Cristina; Gerlach,
INVENTOR(S):
                         Benjamin; Harper, Steven; Koch, Uwe; Matassa, Victor
                         Giulio; Muraglia, Ester; Narjes, Frank; Ontoria,
                         Ontoria Jesus Maria; Petrocchi, Alessia; Ponzi,
                         Simona; Stansfield, Ian; Summa, Vincenzo
                         Istituto di Ricerche di Biologia Molecolare P.
PATENT ASSIGNEE(S):
                         Angeletti Spa, Italy; et al.
SOURCE:
                         PCT Int. Appl., 151 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO
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	WO 2002079234																			
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PRIORITY APPLN. INFO.:							GB 2001-7924 A 20010329													
OTHER SOURCE(S):																				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Compds. I, II, and III [X = CH2, O; Y = CRa2, where Ra = H, OH, CO2H, alkyl, (hetero)aryl, (hetero)aralkyl, or CRa2 = cycloalkyl; Z = (un)substituted (hetero)aryl; R2 = alkyl, fluoroalkyl, or CH2SH; R3 = (un)substituted alkyl, (hetero)aryl, (hetero)aralkyl, or together with NRc forms a ring; Rc = H or alkyl or NRc together with R3 forms a ring; R4 = alkyl, alkenyl, (hetero)aralkyl, (hetero)aryl or an acidic group; R5 = (un)substituted carbamoyl, acyl, carboxylic ester, oxalyl, or sulfonyl group, which may be attached to an amino acid or a di- or tripeptide; R13 is a group contg. .ltoreq. 25 carbon atoms, 0-5 oxygen atoms, 0-3 nitrogen atoms, 0-2 sulfur atoms and .ltoreq. 9 other heteroatoms which may be the same or different; R17 is H, alkyl, alkenyl, (hetero)aryl, (hetero)aralkyl, OH, alkoxy, aryloxy, (hetero)aralkoxy, thioether, sulfonyl or sulfoxide group; R18 is a group contg. .ltoreq. 25 carbon atoms, 0-5 oxygen atoms, 0-5 oxygen atoms, 0-3 nitrogen atoms, 0-2 sulfur atoms and .ltoreq.

9 other heteroatoms which may be the same or different] and their pharmaceutically-acceptable salts or esters were prepd. as inhibitors of the hepatitis C virus (HCV) NS3 protease. Thus, i-BuO2C-Glu-Leu-Cys-NHCH2CH2C6H3Cl2-2,4 was prepd. by the solid-phase method and showed IC50 .ltoreq. 10 .mu.M for inhibition of NS3 protease.

IT 467440-27-3P 467440-28-4P 467440-45-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide inhibitors of hepatitis C virus NS3 protease)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:116982 HCAPLUS

DOCUMENT NUMBER: 137:47425

TITLE: Evolution, synthesis and SAR of tripeptide

.alpha.-ketoacid inhibitors of the hepatitis C virus

NS3/NS4A serine protease

AUTHOR(S): Colarusso, Stefania; Gerlach, Benjamin; Koch, Uwe;

Muraglia, Ester; Conte, Immacolata; Stansfield, Ian;

Matassa, Victor G.; Narjes, Frank

CORPORATE SOURCE: Department of Chemistry, MRL Rome, IRBM, Rome,

Pomezia, 00040, Italy

SOURCE: Bioorganic & Medicinal Chemistry Letters (2002),

12(4), 705-708

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:47425

N-Terminal truncation of the hexapeptide ketoacid MeCO-Asp-Glu-NHCH(CHPh2)CO-Glu-NHCH(CH2c-C6H11)CONHCH(CH2CHF2)CO2H (all-L stereochem.) (c-C6H11= cyclohexyl) gave rise to potent tripeptide inhibitors of the hepatitis C virus NS3 protease/NS4A cofactor complex. Optimization of these tripeptides led to ketoacid BOC-NHCH(c-C5H9)CO-Leu-NHCH(CH2CHF2)COCO2H (all-L stereochem.) (BOC = tert-butoxycarbonyl, c-C5H9 = cyclopentyl) with an IC50 of 0.38 .mu.M. The SAR of these tripeptides is discussed in the light of the recently published crystal structures of a ternary tripeptide/NS3/NS4A complexes.

IT 262437-54-7

RL: PAC (Pharmacological activity); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)

(prepn. and structure-activity relationship of tripeptide ketoacid inhibitors of hepatitis C virus serine protease)

IT **262437-54-7DP**, derivs.

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and structure-activity relationship of tripeptide ketoacid inhibitors of hepatitis C virus serine protease)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:116981 HCAPLUS

DOCUMENT NUMBER: 137:149812

TITLE: A designed P1 cysteine mimetic for covalent and

non-covalent inhibitors of HCV NS3 protease

AUTHOR(S): Narjes, Frank; Koehler, Konrad F.; Koch, Uwe; Gerlach,

Benjamin; Colarusso, Stefania; Steinkuhler, Christian; Brunetti, Mirko; Altamura, Sergio; De Francesco,

Raffaele; Matassa, Victor G.

CORPORATE SOURCE: Department of Chemistry, MRL Rome, IRBM, Rome,

Pomezia, 00040, Italy

SOURCE: Bioorganic & Medicinal Chemistry Letters (2002),

12(4), 701-704

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE:
LANGUAGE:

Journal English

The difluoromethyl group was designed by computational chem. methods as a mimetic of the canonical P1 cysteine thiol for inhibitors of the hepatitis C virus NS3 protease. This modification led to the development of competitive, non-covalent inhibitor AcAspGlu-NHCH(CHPH2)CO-Glu-NHCH(CH2C6H11)CONHCH(CH2CHF2)R (I, R = CHO) Ki 30 nM and reversible covalent inhibitors (I, R = CO2H) Ki 0.5 nM; and (I, R = COCO2H) Ki* 10 pM.

1T 252355-84-3 252355-85-4 252355-86-5 262437-54-7 444990-66-3 444990-67-4 444990-68-5 444990-69-6 444990-70-9

RL: PAC (Pharmacological activity); BIOL (Biological study)

(designed P1 cysteine mimetic for covalent and non-covalent inhibitors

of HCV NS3 protease)

REFERENCE COUNT:

27

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

2000:352482 HCAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

133:189820

TITLE:

Probing the active site of the hepatitis C virus serine protease by fluorescence resonance energy

transfer

AUTHOR(S):

Fattori, Daniela; Urbani, Andrea; Brunetti, Mirko; Ingenito, Raffaele; Pessi, Antonello; Prendergast, Kristine; Narjes, Frank; Matassa, Victor G.; De

Francesco, Raffaele; Steinkuhler, Christian Istituto di Ricerche di Biologia Molecolare "P.

Angeletti", Rome, 00040, Italy

SOURCE:

Journal of Biological Chemistry (2000), 275(20),

15106-15113

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER:

American Society for Biochemistry and Molecular

Biology

DOCUMENT TYPE:

Journal English

LANGUAGE: A serine protease domain contained within the viral NS3 protein is a key ABplayer in the maturational processing of the hepatitis C virus polyprotein and a prime target for the development of antiviral drugs. In the present work, we describe a dansylated hexapeptide inhibitor of this enzyme. Active site occupancy by this compd. could be monitored following fluorescence resonance energy transfer between the dansyl fluorophore and protein tryptophan residues and could be used to (1) unambiguously assess active site binding of NS3 protease inhibitors, (2) directly det. equil. and pre-steady-state parameters of enzyme-inhibitor complex formation, and (3) dissect, using site-directed mutagenesis, the contribution of single residues of NS3 to inhibitor binding in direct binding assays. The assay was also used to characterize the inhibition of the NS3 protease by its cleavage products. We show that enzyme-product inhibitor complex formation depends on the presence of an NS4A cofactor peptide. Equil. and pre-steady-state data support an ordered mechanism of ternary (enzyme-inhibitor-cofactor) complex formation, requiring cofactor complexation prior to inhibitor binding.

IT 262437-54-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitor; probing the active site of the hepatitis C virus NS3 serine

proteinase by fluorescence resonance energy transfer)

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:68910 HCAPLUS

DOCUMENT NUMBER: 132:245829

TITLE: .alpha.-Ketoacids Are Potent Slow Binding Inhibitors

of the Hepatitis C Virus NS3 Protease

AUTHOR(S): Narjes, Frank; Brunetti, Mirko; Colarusso, Stefania;

Gerlach, Benjamin; Koch, Uwe; Biasiol, Gabriella; Fattori, Daniela; De Francesco, Raffaele; Matassa,

Victor G.; Steinkuehler, Christian

CORPORATE SOURCE: Departments of Biochemistry Medicinal Chemistry and

Computational Chemistry, Istituto di Ricerche di Biologia Molecolare (IRBM) P. Angeletti, Pomezia,

00040, Italy

SOURCE: Biochemistry (2000), 39(7), 1849-1861

CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

The replication of the hepatitis C virus (HCV), an important human ABpathogen, crucially depends on the proteolytic maturation of a large viral polyprotein precursor. The viral nonstructural protein 3 (NS3) harbors a serine protease domain that plays a pivotal role in this process, being responsible for four out of the five cleavage events that occur in the nonstructural region of the HCV polyprotein. We here show that hexapeptide, tetrapeptide, and tripeptide .alpha.-ketoacids are potent, slow binding inhibitors of this enzyme. Their mechanism of inhibition involves the rapid formation of a noncovalent collision complex in a diffusion-limited, electrostatically driven assocn. reaction followed by a slow isomerization step resulting in a very tight complex. PH dependence expts. point to the protonated catalytic His 57 as an important determinant for formation of the collision complex. Ki values of the collision complexes vary between 3 nM and 18.5 .mu.M and largely depend on contacts made by the peptide moiety of the inhibitors. Site-directed mutagenesis indicates that Lys 136 selectively participates in stabilization of the tight complex but not of the collision complex. A significant solvent isotope effect on the isomerization rate const. is suggestive of a chem. step being rate limiting for tight complex formation. The potency of these compds. is dominated by their slow dissocn. rate consts., leading to complex half-lives of 11-48 h and overall Ki values between 10 pM and 67 nM. The rate consts. describing the formation and the dissocn. of the tight complex are relatively independent of the peptide moiety and appear to predominantly reflect the intrinsic chem. reactivity of the ketoacid function.

IT 252355-84-3P 262437-54-7P 262437-57-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of .alpha.-ketoacids as potent slow binding inhibitors of hepatitis C virus NS3 protease)

nepatitis o vitus noo protease,

REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:795834 HCAPLUS

DOCUMENT NUMBER: 132:36034

TITLE: Preparation of peptide inhibitors of hepatitis C virus

NS3 protease

INVENTOR(S): Matassa, Victor; Narjes, Frank; Koehler, Konrad;

Ontoria, Jesus; Poma, Marco; Marchetti, Antonella

PATENT ASSIGNEE(S): Istituto Di Ricerche Di Biologia Molecolare P

SOURCE: Angeletti S.p.A., Italy PCT Int. Appl., 121 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
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                                                            DATE
                       A1
                            19991216
                                           WO 1999-GB1824
                                                            19990609
     WO 9964442
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                                     CA 1999-2330247 19990609
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                            20021121
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PRIORITY APPLN. INFO.:
                                        GB 1998-12523
                                                         A 19980610
                                        WO 1999-GB1824
                                                         W 19990609
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Fluorinated oligopeptides Y-B-A-X or Y-B-A'-X' [A is an amino acid residue ABNHCH (CH2CHF2) (CH2) mCO and A' is NHCHR1 (CH2) mCO (m = 0, 1; R1 is a fluorine-substituted hydrocarbyl side chain); B is a naturally or non-naturally occurring amino acid residue NHCHR2CO (R2 is a nonpolar or polar but uncharged side chain or is a side chain contg. an acidic functionality); X = CO2R8, H, OR8, CF3, CONR9R10, NHSO2R25, or certain 5-membered heterocyclic groups (R8, R9, R10, R25 = H, alkyl, alkenyl, aryl, aralkyl); X' = NHSO2N25; Y = Z-F-E-D-C (C is a natural or non-natural amino acid residue having non-polar, polar but uncharged, or acidic side chains; D, E, and F may be absent or represent a natural or non-natural amino acid; Z is absent, H, or R7CO which forms an amide, urethane, or urea linkage with the nitrogen atom to which it is attached) or R13CO (R13 is an aliph. or arom. group contg. 1-25 carbon atoms, 0-5 oxygen atoms, 0-3 nitrogen atoms, 0-2 sulfur atoms, and up to 9 other heteroatoms)] were prepd. as inhibitors of hepatitis C virus NS3 protease. Thus, Ac-Asp-Glu-Met-Glu-Glu-NHCH(CH2CHF2)CO2H-(S), prepd. by coupling of (S)-tert-Bu 2-amino-4,4-difluorobutanoate hydrochloride with protected pentapeptide, showed IC50 for inhibition of NS3 protease.

252355-84-3P 252355-85-4P 252355-86-5P 252355-87-6P 252355-88-7P 252355-89-8P 252355-90-1P 252355-91-2P 252355-93-4P 252355-94-5P 252355-95-6P 252355-96-7P 252355-97-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide inhibitors of hepatitis C virus NS3 protease)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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- L5 ANSWER 1 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN
- RN 467440-45-5 REGISTRY
- CN Butanamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-L-alanyl-2-amino-N-[2-(4-carboxyphenyl)ethyl]-4,4-difluoro-, (2S)- (9CI) (CA INDEX NAME)
- FS PROTEIN SEQUENCE; STEREOSEARCH

MF C53 H65 F2 N7 O15

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

PAGE 1-B

CO2H

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:295254

L5 ANSWER 2 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 467440-28-4 REGISTRY

CN Butanamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-L-alanyl-2-amino-4,4-difluoro-N-(phenylmethoxy)-, (2S)- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C51 H63 F2 N7 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:295254

L5 ANSWER 3 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 467440-27-3 REGISTRY

CN Butanamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-L-alanyl-2-amino-4,4-difluoro-N-(2-phenylethyl)-, (2S)- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C52 H65 F2 N7 O13

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:295254

L5 ANSWER 4 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 444990-70-9 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[(1S)-3,3-difluoro-1-(2-thiazolylcarbonyl)propyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C47 H57 F2 N7 O13 S

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

L5 ANSWER 5 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 444990-69-6 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[(1S)-1-(2-benzoxazolylcarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C51 H59 F2 N7 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

L5 ANSWER 6 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 444990-68-5 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[(1S)-1-(2-benzothiazolylcarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C51 H59 F2 N7 O13 S

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

L5 ANSWER 7 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 444990-67-4 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[(1S)-1-(2,2-difluoroethyl)-2,3-dioxo-3-[(phenylmethyl)amino]propyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C52 H63 F2 N7 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

L5 ANSWER 8 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 444990-66-3 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[(1S)-1-(2,2-difluoroethyl)-3-methoxy-2,3-dioxopropyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C46 H58 F2 N6 O15

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

L5 ANSWER 9 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 262437-57-0 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[(1R)-1-(carboxycarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C45 H56 F2 N6 O15

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:245829

L5 ANSWER 10 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 262437-54-7 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[(1S)-1-(carboxycarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C45 H56 F2 N6 O15

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

REFERENCE 2: 137:47425

REFERENCE 3: 133:189820

REFERENCE 4: 132:245829

L5 ANSWER 11 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-97-8 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[3,3-difluoro-1-(2furanylcarbonyl)propyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C48 H58 F2 N6 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 12 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-96-7 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[3,3-difluoro-1-(1H-imidazol-2-ylcarbonyl)propyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C47 H58 F2 N8 O13

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 13 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-95-6 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[3,3-difluoro-1-(2-thiazolylcarbonyl)propyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C47 H57 F2 N7 O13 S

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 14 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-94-5 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[1-(2-benzoxazolylcarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C51 H59 F2 N7 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 15 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-93-4 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[1-(2-benzothiazolylcarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C51 H59 F2 N7 O13 S

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 16 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-91-2 REGISTRY

CN Butanoic acid, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-L-alanyl-2-amino-4,4,4-trifluoro- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C44 H55 F3 N6 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 17 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-90-1 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[1-(2,2-difluoroethyl)-3-methoxy-2,3-dioxopropyl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C46 H58 F2 N6 O15

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 18 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-89-8 · REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[3-(cyanoamino)-1-(2,2-difluoroethyl)-2,3-dioxopropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C46 H56 F2 N8 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

L5 ANSWER 19 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-88-7 REGISTRY

CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-N-[1-(carboxycarbonyl)-3,3-difluoropropyl]-3-cyclohexyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C45 H56 F2 N6 O15

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

- L5 ANSWER 20 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN
- RN 252355-87-6 REGISTRY
- CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[(1R)-3,3-difluoro-1-formylpropyl]- (9CI) (CA INDEX NAME)
- FS PROTEIN SEQUENCE; STEREOSEARCH
- MF C44 H56 F2 N6 O13
- SR CA
- LC STN Files: CA, CAPLUS
- **RELATED SEQUENCES AVAILABLE WITH SEQLINK**

Absolute stereochemistry.

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:36034

- L5 ANSWER 21 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN
- RN 252355-86-5 REGISTRY
- CN L-Alaninamide, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-N-[(1S)-3,3-difluoro1-formylpropyl]- (9CI) (CA INDEX NAME)
- FS PROTEIN SEQUENCE; STEREOSEARCH
- MF C44 H56 F2 N6 O13
- SR CA
- LC STN Files: CA, CAPLUS
- **RELATED SEQUENCES AVAILABLE WITH SEQLINK**

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

REFERENCE 2: 132:36034

L5 ANSWER 22 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-85-4 REGISTRY

CN Butanoic acid, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-L-alanyl-2-amino-4,4-difluoro-, (2R)- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C44 H56 F2 N6 O14

SR CA

LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

REFERENCE 2: 132:36034

L5 ANSWER 23 OF 23 REGISTRY COPYRIGHT 2003 ACS on STN

RN 252355-84-3 REGISTRY

CN Butanoic acid, N-acetyl-L-.alpha.-aspartyl-L-.alpha.-glutamyl-.beta.-phenyl-L-phenylalanyl-L-.alpha.-glutamyl-3-cyclohexyl-L-alanyl-2-amino-4,4-difluoro-, (2S)- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C44 H56 F2 N6 O14

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:149812

REFERENCE 2: 132:245829

REFERENCE 3: 132:36034